VELOSTRATA

Move Workloads to a Public Cloud in Minutes

Velostrata software helps organizations migrate production workloads to the public cloud in minutes (vs. weeks) with an agentless solution that simplifies and automates the conversion of application workloads to AWS or Azure. Our technology uniquely decouples compute from storage, and makes it possible to move compute to the cloud while controlling and automating where storage resides: on-premises, in the cloud, or a combination of both. Run, move, or test applications in AWS or Azure without re-writing them, modifying the image, or changing your management processes. Getting to the cloud is now as simple as a few clicks in vCenter. Velostrata does the rest.

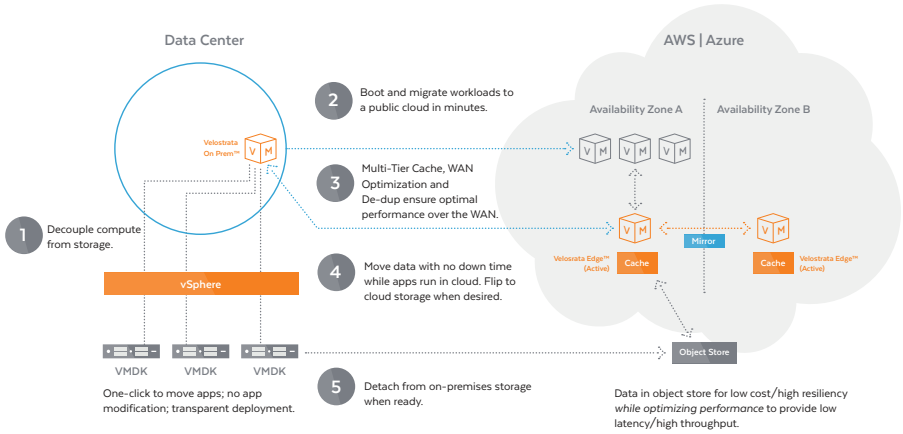


Figure: The Velostrata Cloud Workload Mobility Solution

Why Velostrata is Different

Velostrata software has a number of key differentiators that make it an ideal solution to support enterprise cloud migration:

Speed: Real-time streaming means stateful workloads move from on-prem to cloud in minutes (up to 100x faster than replication-based approaches) while storage migrates in background, keeping your migration projects fast and on track.

Simplicity: Agentless technology that automatically adapts workloads for cloud, managed via vCenter plug-in, PowerShell, or integration with cloud management tools via full REST API.

Scale: WAN optimizations including caching, de-duplication, predictive prefetch, and compression power migrations at rates up to 100+ VMs/hour

Safety: Test before you migrate to optimize performance and pick the right architecture, and enjoy the safety net of instant rollback to on-prem if needed.

Deployment

Velostrata software is deployed within virtual appliances, and installation requires just a few steps.

1. Download and deploy the Velostrata OnPrem™ virtual appliance in the data center.
2. Leverage Velostrata to create a Virtual Private Cloud, and a Virtual Private Network to securely link the VPC to your Velostrata OnPrem appliance. It's important to note that all traffic between these points is encrypted end to end, both in flight and at rest.
3. Deploy a vCenter Plug-In from within Velostrata OnPrem™.
4. Log in to the extended vCenter and click to automatically deploy a pair of Velostrata EdgeTM virtual appliances in active/active configuration into the VPC. Each pair supports 50 concurrent VMs, and you can add more for scale.

Deployment is quick, simple, and straight forward. Once deployed, Velostrata provides comprehensive tracking and performance reporting, so you have a complete view of all your applications.

"I was excited to see that we were able to very quickly move servers from on-premises to AWS, without any manipulation or conversion of the VMs and with excellent performance. With Velostrata, I have the flexibility to leverage the public cloud on-demand and I'm never locked-in."

Guardian Industries Corp.
(Global Manufacturing Company)

"Velostrata quickly proved they could deliver on both performance and functionality. The flexibility to move workloads back and forth between my datacenter and the cloud in minutes while controlling where storage resides finally makes cloud a low-risk, low-cost option for us."

TechSmith
(Global Technology Company)

"Velostrata takes something that is really complex and makes it incredibly simple. Movement of VMs between our datacenter and the cloud was simple and fast, and the user interface and the configuration process were equally simple and intuitive."

Just Energy
(US Energy Company)

Example Applications

Velostrata is ideal for workloads like ERP, Collaboration, Middleware, OLTP, and Oracle or MS-SQL databases—to name a few. Applications where read activity is focused on an active working set of data which refreshes over time are always a great fit.

Core Technology

Velostrata's patent-pending capabilities make cloud workload mobility possible.

Boot Over WAN: Velostrata performs a native boot from the on-premises operating system over the WAN, in just a few minutes—regardless of the image size. While the image boots, Velostrata adapts it on the fly to meet the target environment. No changes to the application, image, storage, drivers, or networking are required.

Intelligent Streaming: Velostrata prioritizes the elements necessary for a workload to run and moves them to the cloud first, so applications can begin running in minutes. Less frequently accessed data can be streamed in the background while VMs continue to run.

Multi-Tier Caching and Optimization: Velostrata includes a multi-tier, read-write cache in the cloud, which contains the working set of data needed by the application. De-duplication, pre-fetching, asynchronous write-back and network optimizations ensure optimal performance even when authoritative data is still maintained on-premises.

Resiliency: Each Velostrata EdgeTM deployment incorporates active-active appliances deployed across two availability zones. Writes are acknowledged in both availability zones and then asynchronously transferred back to any on-premises storage to prevent any data loss in the event of an outage. Optionally, new data writes can persist in the public cloud, which is useful for dev/test scenarios. Further, Velostrata's architecture ensures a 30-second RPO for sync in S3 and a 30-minute RPO for sync on-premises.

Transparent Management: No changes to the applications, images, networks, storage, or drivers are required and there is no need to learn new tools or processes as Velostrata integrates seamlessly into VMware vCenter. Velostrata is also designed with a REST API for simple integration into 3rd party management tools.

Security: Data between Velostrata virtual appliances use SSL and is encrypted using AES-128. Data at rest in the cache is de-duplicated, compressed, and encrypted with AES-256.

Migration Automation: For pre-migration planning or migration automation, Velostrata offers self-documenting, auditable migration plans which IT can generate using vCenter Inventories. Automated runbooks provide a blueprint for each VM, including their dependencies and configuration details.

The Benefits

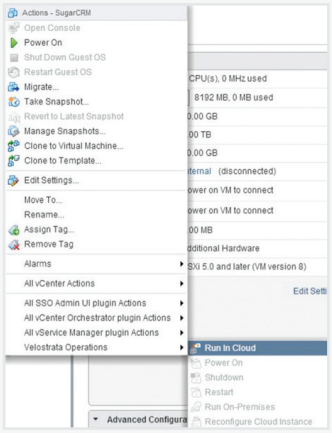
Reduce Migration Risk: Easily test applications for cloud performance and cost before you migrate; because storage can be retained on-premises while applications are in the cloud, you have a safety net. If you decide you want to move applications back on-premises—or to another cloud provider—it's as easy as a few mouse clicks.

Reduce Costs: Eliminate data centers by migrating enterprise applications to the public cloud and reduce operating expense (OpEx) costs by simplifying and accelerating the migration process. Avoid 5+ hours per server of hidden labor costs when using agent-based or replication-based migration tools.

Improve Business Agility: Migrate compute in minutes while intelligently streaming data in the background; enable workload mobility across cloud regions and cloud providers without the need to move storage; support test/dev projects on demand.

Improve Operational Efficiency: Leverage the same in-house management tools and processes you use today, even after migration. No changes to the applications, images, or storage are required.

Mitigate Security and Compliance Risks: Gain full control over where the data resides (on-premises, in the public cloud, or some combination). Data is encrypted in motion and at rest.



When you're ready to move workloads, simply click "Run in Cloud" from vCenter.

About Velostrata

Velostrata software enables public cloud migration and workload mobility with speed, scale and simplicity. Unlike replication-based approaches, Velostrata's agentless platform moves applications to the cloud in minutes. The software is easy to deploy and manage, and can significantly reduce the risks associated with migration. Unique capabilities let organizations "test before they migrate" in minutes, without taking production applications offline, and provide ongoing flexibility to move workloads back on-premises or to another cloud if desired.

Velostrata is backed by Norwest Venture Partners and 83 North (formerly Greylock Partners IL), and is headquartered in San Mateo, California, with research and development in Israel.

For more information, visit:
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